



DEPARTMENT OF THE NAVY
OFFICE OF THE SECRETARY
WASHINGTON, D C. 20350-1000

SECNAVINST 5200.38
CNO N81
18 October 1994

SECNAV INSTRUCTION 5200.38

From: Secretary of the Navy

Subj: DEPARTMENT OF THE NAVY MODELING AND SIMULATION PROGRAM

Ref: (a) DoD Directive 5000.59 of 4 Jan 94; Subj: DoD Modeling and Simulation (M&S) Management (NOTAL)

1. Purpose. To comply with the requirements of reference (a); to establish the Department of the Navy Modeling and Simulation Program (DONMSP), the Department of the Navy Modeling and Simulation Advisory Council, and the Department of the Navy Modeling and Simulation Management Office (DONMSMO); and to assign responsibilities and prescribe policy and guidance for the execution of the program.

2. Applicability and Scope

a. This instruction applies to all Modeling and Simulation activities sponsored by the Department of the Navy, as noted below.

b. This instruction applies to each model or simulation application which satisfies one or more of the following criteria:

(1) An application for which at least five man-years of effort has been invested for development or for enhancement, and for which the reference version has a completion date falling after the effective date of this instruction.

(2) An application which is to be used significantly either in a Cost and Operational Effectiveness Analysis or in analyses supporting the development of the Department of the Navy Program Objectives Memorandum.

(3) An application which is essential for human safety or whose interaction leads to the control and movement of real systems in real time (such as live forces and military hardware in training, exercises or formal systems testing).



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(4) An application which the Navy or Marine Corps will release or otherwise make available to other Department of Defense components or to contractors, or an application that will operate with modeling and simulation applications developed outside the Department of the Navy.

c. Exceptions. Models and simulations under the cognizance of the Commander, Naval Sea Systems Command (SEA-08) (Director, Naval Nuclear Propulsion Program), are excepted from management by the Department of the Navy Modeling and Simulation Program; however, the principles of this instruction and reference (a) are considered to be valid for those so excepted.

3. Policy

a. General

(1) Department of the Navy Modeling and Simulation Program guidance amplifies other existing regulations which govern the design, development, application and disposition of software, including modeling and simulation applications. This guidance addresses the unique characteristics of modeling and simulation that distinguish them from other computer software applications. Modeling and simulation applications developed as integral parts of larger Automated Information Systems (AIS-embedded modeling and simulations) will be managed in accordance with the regulations covering the larger Automated Information Systems; however, the Verification, Validation and Accreditation portions of this instruction will be adhered to in ensuring the internal integrity of such modeling and simulation.

(2) The Department of the Navy Modeling and Simulation Program encompasses the modeling and simulation activities associated with the functional disciplines of research and development, test and evaluation, education and training, operations, production and logistics, and analysis.

(3) The Department of the Navy Modeling and Simulation Program addresses policy to govern resource content and the conduct of activities employed in the development, acquisition, use, maintenance, access and disposition of models and simulations within the Navy and Marine Corps. This guidance further recognizes that some modeling and simulation applications have characteristics that render them inappropriate for intensive management, resource control, or independent cataloging.

b. Interoperability

(1) All modeling and simulation applications designated

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for joint and combined uses will meet Department of Defense, joint and combined Service interoperability criteria. Developers of interoperable models and simulations will give due regard to the Distributed Interactive Simulation or other approved standards during the modeling and simulation design process. Developers of models and simulations which involve representations of the functions of other Services or Government agencies will coordinate those representations with the Service or agency involved to the extent practicable, as determined by the responsible Department of Defense component.

(2) As the Defense System Internet and other inter-linking communications become available, modeling and simulation applications originally developed for single-Service use will frequently be employed in joint configurations, regardless of original intent. These configurations will model joint employment, or compare systems to support the development/acquisition processes. For this reason, modeling and simulation developments intended for single-Service use should also give due regard to Distributed Interactive Simulation or other approved standards during the modeling and simulation design process.

c. Exceptions. Requests for exceptions to Department of the Navy Modeling and Simulation Program management policies will be submitted through the chain of command to the Department of the Navy Modeling and Simulation Management Office. Exceptions will be approved by the appropriate Executive Agent.

4. Responsibilities

a. Under Secretary of the Navy. The Under Secretary of the Navy shall act as the senior official in the Department of the Navy dealing with modeling and simulation. He will be assisted by the Modeling and Simulation Advisory Council, co-chaired by two Executive Agents (Director, Space and Electronic Warfare, Office of the Chief of Naval Operations (N6) and Commanding General, Marine Corps Combat Development Command), who direct the Department of the Navy Modeling and Simulation Management Office. The Under Secretary of the Navy will:

(1) Provide guidance as necessary to the Executive Agents in the management of the Department of the Navy Modeling and Simulation Program.

(2) Strengthen the uses of modeling and simulation in the Department of the Navy.

(3) Carry out other Department of Defense Component responsibilities assigned by reference (a) that are not otherwise

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delegated to another Department of the Navy official or organization pursuant to this instruction.

(4) Determine any unresolved issues between the two Executive Agents.

b. Department of the Navy Modeling and Simulation Advisory Council. The Department of the Navy Modeling and Simulation Advisory Council will:

(1) Be co-chaired by the Director, Space and Electronic Warfare, Office of the Chief of Naval Operations (N6) and the Commanding General, Marine Corps Combat Development Command.

(2) Be composed of the following members:

(a) Functional Area Managers

<u>Representative</u>	<u>Functional Area</u>
ASN(RD&A)	Acquisition, Research and Development
COMNAVDOCCOM	Doctrine
CNO (N091)	Test and Evaluation
CNO (N4)	Logistics
CNO (N6)	Co-chair; Support to Operations
CNO (N7)	Training, Training Systems and Education
CNO (N8)	Assessment

(b) Other Members

CG, MCCDC	Co-chair
CMC (DCS PPO)	
CNO (N3/N5)	
CMC (DCS I&L)	
CMC (ACS C4I)	
CDR MARCORSYSCOM	
Others as designated by Under Secretary of the Navy	

(c) Consultant(s)

Representative, Center for Naval Analyses

(3) Meet at the call of the Executive Agents, when required.

(4) Advise the Under Secretary of the Navy on the formulation of the Department of the Navy modeling and simulation vision; development of the Department of the Navy modeling and simulation policy; and guide the development of policy, coordi-

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nation and technical support.

(5) Promote the use of the Department of Navy-wide common support services where appropriate.

(6) Annually review and make recommendations regarding proposed changes to this instruction and to other Secretary of the Navy instructions relating to aspects of modeling and simulation management.

c. Executive Agents. The Executive Agents shall:

(1) Serve as single point of contact for their parent Services as members of the Executive Council for Modeling and Simulation and other joint and Office of the Secretary of Defense fora.

(2) Participate as members of, and make final decisions of, the Department of the Navy Modeling and Simulation Advisory Council.

(3) Jointly provide oversight to the Department of the Navy Modeling and Simulation Management Office.

(4) Promote and support Department of the Navy participation in joint and cooperative research, development, acquisition and operation of modeling and simulation systems, technologies and capabilities.

(5) Approve Service Modeling and Simulation Master Plans, Investment Plans and other Service modeling and simulation planning documents.

(6) Approve or disapprove requests for exceptions to the Department of the Navy Modeling and Simulation Program management policies submitted in accordance with paragraph 3c.

(7) Jointly review, coordinate, and approve the Department of Defense Modeling and Simulation plans, programs, and policies, procedures, and Department of Defense publications.

(8) Approve Department of Navy modeling and simulation vision and policy.

d. Functional Area Managers. The functional area managers deal generally with issues across a spectrum of organizations. For example, Deputy Chief of Naval Operations (Resources, Warfare Requirements and Assessments) (N8) is designated as Service lead for analysis, yet analysis is carried out throughout many

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organizations. Functional Area Managers shall:

(1) Participate as members of the Department of the Navy Modeling and Simulation Advisory Council.

(2) Provide vision for employment of modeling and simulation to commands, facilities and organizations working within their specified functional areas.

(3) Promote and support participation in joint and cooperative research, development, acquisition and operation of modeling and simulation systems, technologies and capabilities within their respective Services and functional areas.

(4) Participate in the development of Service Modeling and Simulation Master Plans, Investment Plans and other Service Modeling and Simulation planning documents.

e. Department of the Navy Modeling and Simulation Management Office:

(1) Will be composed of: (a) the Policy and Coordination Office and (b) the Technical Support Group.

(2) Is headed by a Director and Assistant Director, one from each Service (Marine Colonel and Navy Captain). The Director routinely fleets up from Assistant Director midway through a normal tour. This will ensure balanced command representation for each Service, over time. The Director will head the Policy and Coordination office.

(3) Will coordinate modeling and simulation plans (including Navy and Marine Corps Master Plans and Investment Plans), programs, policies and procedures across functional areas, to ensure an effective and efficient approach to development and use of modeling and simulation.

(4) Will maintain instructions and establish standards as necessary to manage the Department of the Navy Modeling and Simulation Program. It will provide guidance in the development of the Department of the Navy programs such as cataloging and Verification, Validation and Accreditation, classification mediation and others where a single Department of the Navy policy is determined to be required.

(5) The Technical Support Group is headed by a civilian technical director, under the Director/Assistant Director of the Department of the Navy Modeling and Simulation Management Office,

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and is hosted within the Space and Naval Warfare Systems Command (SPAWAR).

(6) The Technical Support Group provides technical advice and assistance in the execution of modeling and simulation activities throughout the Department of the Navy. Specific tasks include:

(a) Supporting Department of Defense, Joint Staff and Department of the Navy modeling and simulation cataloging efforts by maintaining an automated Naval Modeling and Simulation Master Catalog, acting as Naval point of contact for input into defense catalog systems, and providing catalogs in electronic format upon request.

(b) Providing management of the Department of the Navy Verification, Validation and Accreditation process.

(c) Advising on standards to be used.

(d) Assisting in selection and development of modeling and simulation applications.

(e) Building common services, tools, and databases for future development.

(f) Supporting development of the multi-service common simulation framework and necessary infrastructure and tools, such as common interface units, catalogs, etc.

(g) Assisting in design of distributed simulation exercises.

(h) Other tasks as assigned.

(7) The Department of the Navy Modeling and Simulation Management Office may establish working groups and task forces to assist in the accomplishment of assigned tasks. These organizations may serve as extensions of the Department of the Navy modeling and simulation offices, or for discussion of issues and policies, and the sharing of modeling and simulation techniques and technologies.

(8) The Department of the Navy Modeling and Simulation Management Office shall provide information on modeling and simulation applications, standards, and data bases managed by the Department of the Navy to the Department of Defense Modeling and Simulation Information Analysis Center.

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f. Service Components. The Director and Assistant Director of the Department of the Navy Modeling and Simulation Management Office each heads up his/her own Service Policy and Coordination Group. In this function, each works directly for the Executive Agent of his/her respective Service. Each also represents the parent Service on the Modeling and Simulation Working Group, as established by reference (a), and at other joint and Office of the Secretary of Defense groups, as necessary. Each Service Component will:

- (1) Develop a Master Plan and an Investment Plan, responsive to the Department of Defense Modeling and Simulation Master Plan and Investment Plan issued by the Under Secretary of Defense (Acquisition and Technology). These plans provide guidance for management, oversight, and development of the modeling and simulation resources which focus on interoperability and reusability of simulations, models and data bases across organizations; trainers, simulations, models and data bases that require significant development and maintenance investments; and models and simulations which may have an impact on acquisition and operational decisions.

- (2) The Service Policy and Coordination Groups are each responsible for single-Service concerns, and represent Service interests in coordination with the Defense Modeling and Simulation Office (DMSO) and with the joint staff and other Services.

g. Other Users. Developers and users of modeling and simulation applications will:

- (1) Follow the modeling and simulation directives and policies promulgated in the execution of this directive.


- (2) Determine which policies and procedures are required for their particular situation and ensure compliance. If a modeling and simulation effort crosses a management threshold that was not originally envisioned, developers and users are responsible for ensuring compliance with the additional procedures that are now required.

- (3) Provide complete cataloging information via the Department of the Navy Modeling and Simulation Management Office at least annually, or when requested.

6. Verification, Validation and Accreditation. A common verification, validation and accreditation process shall be established for use by Navy and Marine Corps activities via a separate Secretary of the Navy instruction. The verification,

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validation and accreditation instruction shall be written and coordinated by the Department of the Navy Modeling and Simulation Management Office.


Richard Danzig
Acting

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